

In the Claims:

Please amend the claims as follows:

1-103. (Previously Canceled).

104. (Currently Amended) A method for modulating the production of a polyketide by a fungus, the method comprising overexpressing ~~modulating the expression of a gene selected from the group consisting of: ganB, gpa3, creA, Lys14, Pc23 and fungal homologs~~ creA or a fungal homolog thereof.

105. (Original) The method of claim 104 wherein the polyketide is a statin.

106. (Original) The method of claim 105 wherein the statin is lovastatin.

107. (Original) The method of claim 104 wherein the fungus is an Ascomycetes.

108. (Currently Amended) The method of claim 104 comprising overexpressing creA ~~wherein the gene is selected from the group consisting of: ganB, gpa3, creA, Lys14, and Pc23.~~

109-112. (Canceled)

113. (Original) The method of claim 107 wherein the fungus is *A. terreus*.

114 – 118. (Canceled)

119. (Original) The method of claim 107 wherein the yield of polyketide by the fungus is increased.

120. (Currently Amended) A method for providing a fungal cell with improved polyketide production, the method comprising transforming a fungal cell with a nucleic acid molecule comprising a nucleotide sequence encoding creA or a fungal homolog thereof a ~~protein selected from the group consisting of: ganB, gpa3, creA, Lys14 and Pc23 and fungal homologs thereof.~~

121. (Original) The method of claim 120 wherein the polyketide is a statin.

122. (Original) The method of claim 121 wherein the statin is lovastatin.

123. (Original) The method of claim 120 wherein the fungus is an Ascomycetes.

124. (Currently Amended) The method of claim 120 wherein the nucleic acid molecule encodes creA ~~protein is selected from the group consisting of: ganB, gpa3, creA, Lys14 and Pc23.~~

125. (Original) The method of claim 123 wherein the fungus is *A. terreus*.

126-130. (Canceled)

131. (Original) The method of claim 120 wherein the yield of polyketide by the transformed fungus is greater than the yield of polyketide by the non-transformed fungus.

132. (Currently Amended) A genetically modified fungus having the ability to produce a polyketide wherein the production of lovastatin by the fungus has been modulated by a method comprising overexpressing or conditionally expressing creA or a fungal homolog thereof ~~modulating the expression of a gene selected from the group consisting of: ganB, gpa3, creA, Lys14, Pc23 and fungal homologs thereof.~~

133. (Original) The genetically modified fungus of claim 132 wherein the polyketide is a statin.

134. (Original) The genetically modified fungus of claim 133 wherein the statin is lovastatin.

135. (Original) The genetically modified fungus of claim 132 wherein the fungus is an Ascomycetes.

136. (Currently Amended) The genetically modified fungus of claim 132 wherein creA is overexpressed or conditionally expressed ~~the gene is selected from the group consisting of: ganB, gpa3, creA, Lys14, and Pe23.~~

137. (Original) The genetically modified fungus of claim 135 wherein the fungus is *A. terreus*.

138-143. (Canceled).

144. (Currently Amended) A method for producing a polyketide, the method comprising culturing a genetically modified fungus overexpressing creA ~~according to claim 132~~ in culture medium under conditions suitable for the production of the polyketide.

145. (Original) The method of claim 144 wherein the polyketide is a statin.

146. (Original) The method of claim 145 wherein the statin is lovastatin.

147. (Original) The method of claim 144 wherein the fungus is an Ascomycetes.

148. (Original) The method of claim 144 further comprising isolating a fraction of culture medium containing a polyketide.

149-224. (Canceled).

225. (New) A method for modulating the production of a polyketide by a fungus, the method comprising conditionally expressing creA or a fungal homolog thereof.

226. (New) The method of claim 225 wherein the polyketide is a statin.

227. (New) The method of claim 226 wherein the statin is lovastatin.

228. (New) The method of claim 225 wherein the fungus is an Ascomycetes.

229. (New) The method of claim 225 comprising conditionally expressing creA.

230. (New) The method of claim 228 wherein the fungus is *A. terreus*.

231. (New) The method of claim 225 wherein the yield of polyketide by the fungus is increased.

232. (New) A method for producing a polyketide, the method comprising culturing a genetically modified fungus conditionally expressing creA in culture medium under conditions suitable for the production of the polyketide.

233. (New) The method of claim 232 wherein the polyketide is a statin.

234. (New) The method of claim 233 wherein the statin is lovastatin.

235. (New) The method of claim 232 wherein the fungus is an Ascomycetes.

Applicant : Robert W. B et al.  
Serial No. : 09/487,558  
Filed : January 19, 2000  
Page : 6 of 7

Attorney's Docket No.: 14184-008001

*236* 236. (New) The method of claim 232 further comprising isolating a fraction of culture medium containing a polyketide.

---